

The Impact Model of Social Restriction Policies and New Habit Adaptation to Community Mobility Patterns in Responding and Control Covid-19 Pandemic in Indonesia

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Abstract

The Indonesian government has carried out various policies in suppressing the spread of Covid-19 in Indonesia. The restriction policies that have been implemented encourage the community to adapt their behavior following the health protocols set by the government. The propagated spread transmission of Covid-19, followed by changes in the community mobility pattern, and influences increasing cases.

This study assessed the impact of the policies implemented by the government on the changing patterns of community mobility and controlling Covid-19 in Indonesia. Aggregate data on Covid-19 epidemiological parameters and population mobility data from Google Community Report were analyzed by trend and modeling using linear regression analysis from the beginning of the March 2020-June 2021 pandemic Covid-19 in Indonesia.

The results showed an increase in Covid-19 cases following the community mobility in Indonesia. The pattern of community mobility was different in each restriction policy and in various places as shown Table 1 and Figure 1. Social restriction policies were not fully effective in controlling Covid-19 in Indonesia. The effectiveness of restrictive policies and patterns of community mobility in controlling Covid-19 requires consistent and continuous supervision from the government.

Table: Covid-19 community mobility in Indonesia

Policies	Stage/Phase	Start	End	Policy Based	Area/Region
PSBB	Transition	6 April 2020	14 September 2020	Peraturan Pemerintah Nomor 21 Tahun 2020	15 Province
PPKM	I & II	1 Januari 2021	8 February 2021	Instruksi Mendagri No. 1 & No.2 Tahun 2021	7 Province

PPKM Mikro	I - XII	9 February 2021	25 Juli 2021	Instruksi Mendagri No. 3 - No.14, No. 17, 20 dan No.23 Tahun 2021	National
PPKM Darurat	-	3 Juli 2021	25 Juli 2021	Instruksi Mendagri No. 15, No. 16, No. 18, dan No. 19 Tahun 2021	Java & Bali Island
PPKM level 1-4	-	21 Juli 2021	2 August 2021	Instruksi Mendagri No. 22 dan No. 23 Tahun 2021	National

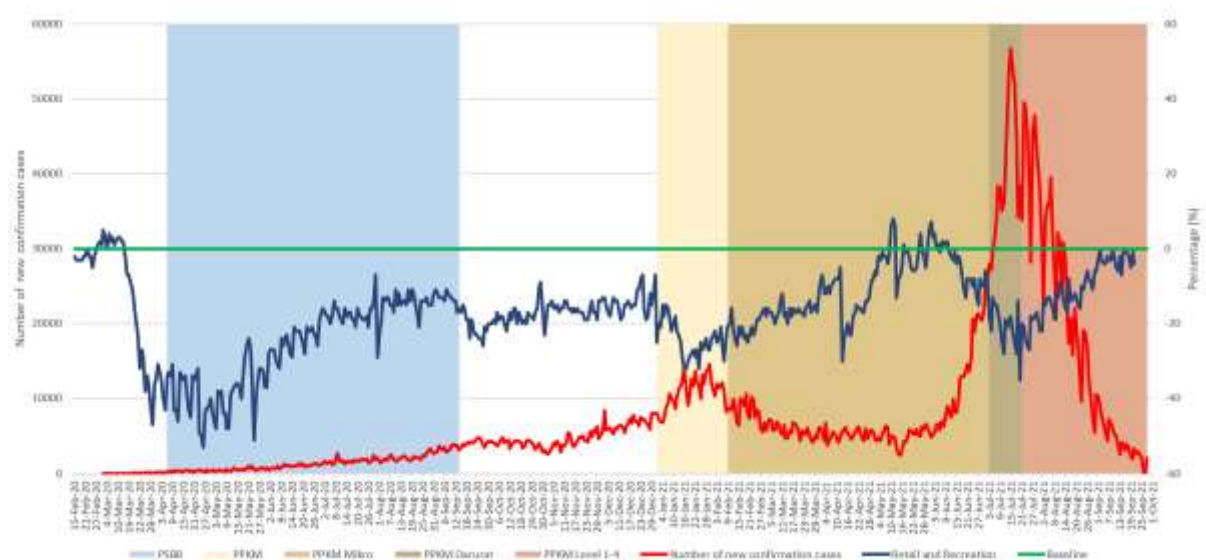


Figure 1. Covid-19 Community Mobility at Retail and Recreation in Indonesia

Policies based on comprehensive epidemiological research were essential considerations in efforts to control and prevent the transmission of Covid-19.

Keywords

Community Mobility, Covid-19, Indonesia, Social Restriction

Aknowlegment

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References

1. Djalante, R. et al. Review and analysis of current responses to COVID-19 in Indonesia: Period of January to March 2020. *Progress in Disaster Science*. 2020; 6, 100091.
2. WHO. 2021b. WHO Coronavirus (COVID-19) Dashboard - Indonesia (online)
<https://covid19.who.int/region/searo/country/id> accessed 26 August 2021.